Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

3

1	Claim '	I (previously presented): An apparatus for thermally treating at		
2	least one intervertebral disc, comprising:			
3	(a)	an energy application head having an energy application region		
4	;	and a tissue protecting region;		
5	(b)	a rounded edge intersection between said energy application		
6		region and said tissue protecting region;		
7	(c)	at least part of said rounded edge intersection being a thin leading		
8		edge;		
9	(d)	said tissue protecting region being sloped from said thin leading		
0	•	edge to a thick region for lifting vulnerable tissues away from a site		
1		of energy application to said at least one intervertebral disc; and		
2	(e)	a control member operationally connected to said energy		
.3	;	application head, said control member suitable for controlling said		
.4	•	energy application head during treatment of said at least one		
.5	j	intervertebral disc.		
6				
1	Claim 2	2 (original): The apparatus of claim 1, wherein said energy		
2	application head is w	vedge-shaped.		
3	•			
1	Claim 3	3 (original): The apparatus of claim 1, wherein said tissue		
2	protecting region has	s a domed center.		

1	Claim	4 (original): The apparatus of claim 1, wherein said energy
2	application region h	nas a smooth surface suitable for gliding over surfaces of an annulus
3	fibrosis without sna	gging other tissues.
4		
1	Claim	5 (original): The apparatus of claim 1, said energy application head
2	further comprising	at least one instrument selected from the group consisting of:
3	(a)	a temperature measuring instrument;
4	(b)	a tissue visualizing instrument
5	(c)	an energy measuring instrument;
6	(d)	a distance measuring instrument;
7	(e)	an area measuring instrument;
8	(f)	a pressure measuring instrument; and
9	(g)	a volume measuring instrument.
10		
1	Claim	6 (original): The apparatus of claim 1, said energy application head
2	further comprising a	at least one energy applicator selected from the group consisting of:
3	(a)	a laser;
4	(b)	a fiber-optic strand;
5	(c)	a lens;
6	(d)	an electrode;
7	(e)	a wire;
8	(f)	a light bulb;
9	(g)	a heating element; and
10	(h)	an ultrasound transducer.
11		
12		

1	Claim	n 7 (original): The apparatus of claim 1, wherein said energy		
2	application head applies energy selected from the group consisting of:			
3	(a)	electric current;		
4	(b)	radio frequency waves;		
5	(c)	microwaves;		
6	(d)	infrared waves;		
7	(e)	visible light waves;		
8	(f)	ultraviolet waves;		
9	(g)	ultrasonic sound waves; and		
0	(h)	conductive thermal energy.		
1				
1	Claim	n 8 (original): The apparatus of claim 7, said energy further		
2	comprising energy	in a form selected from the group consisting of:		
3	(a)	incoherent electromagnetic radiation;		
4	(b)	defocused laser energy; and		
5	(c)	collimated laser energy.		
6				
1	Claim	n 9 (original): The apparatus of claim 1, said tissue protecting region		
2	further comprising at least one thermal protector for protecting vulnerable tissues from			
3	energy applied by said energy application head.			
4				
1	Claim	n 10 (original): The apparatus of claim 9, wherein said at least one		
2	thermal protector is	s selected from the group consisting of:		
3	(a)	at least one layer of insulation;		
4	(b)	airflow coolant;		
5	(c)	liquid coolant;		
6	(d)	coolant from a refrigeration system;		
7	(e)	a thermocouple; and		
8	(f)	a heat-pipe.		

9			
1	Claim	11 (original): The apparatus of claim 1, said control member further	
2	comprising at least	one member selected from the group consisting of:	
3	(a)	a wire;	
4	(b)	a fiber-optic strand;	
5	(c)	one or more hollow tubes;	
6	(d)	a radio control mechanism;	
7	(e)	a moving mechanical link; and	
8	(f)	a beam of light;	
9	(g)	a lumen for adding and removing instruments;	
10	(h)	a lumen for adding and removing tissue; and	
11	(i)	a lumen for irrigating.	
12			
1	Claim	12 (previously presented): An apparatus for thermally treating at	
2	least one intervertebral disc, comprising:		
3	(a)	an energy application head having an energy application region	
4		and a tissue protecting region;	
5	(b)	a thin leading edge formed at the anterior portion of a rounded	
6		edge intersection between said energy application region and said	
7		tissue protecting region;	
8	(c)	said tissue protecting region being sloped away from said energy	
9		application region and from said thin leading edge to a thick region	
10		for lifting vulnerable tissues away from a site of energy application	
11		to said at least one intervertebral disc; and	
12	(d)	a control member operationally connected to said energy	
13		application head, said control member suitable for controlling said	
14		energy application head during treatment of said at least one	
15		intervertebral disc.	
16			

l	Clain	n 13 (original): The apparatus of claim 12, wherein said energy	
2	application head is wedge-shaped.		
3			
1	Clair	n 14 (original): The apparatus of claim 12, wherein said tissue	
2	protecting region h	nas a domed center.	
3			
1	Clair	n 15 (original): The apparatus of claim 12, wherein said energy	
2	application region has a smooth surface suitable for gliding over surfaces of an annulus		
3	fibrosis without sna	agging other tissues.	
4			
1	Clair	m 16 (previously presented): An apparatus for thermally treating at	
2	least one intervertebral disc, comprising:		
3	(a)	an energy application head having an energy application region	
4		and a tissue protecting region;	
5	(b)	a thin leading edge formed at the anterior portion of a rounded	
6		edge intersection between said energy application region and said	
7		tissue protecting region;	
8	(c)	said tissue protecting region being sloped away from said energy	
9		application region and from said thin leading edge to a thick region	
10		for lifting vulnerable tissues away from a site of energy application	
11		to said at least one intervertebral disc.	
12			
1	Clair	n 17 (original): The apparatus of claim 16, wherein said energy	
2	application head is	s wedge-shaped.	
3			
1		n 18 (original): The apparatus of claim 16, wherein said tissue	
2	protecting region h	nas a domed center.	
3			

1	Clain	n 19 (original): The apparatus of claim 16, wherein said energy		
2	application region has a smooth surface suitable for gliding over surfaces of an annulus			
3	fibrosis without sna	agging other tissues.		
4				
1	Clain	n 20 (previously presented): An apparatus for thermally treating at		
2	least one interverte	ebral disc, comprising:		
3	(a)	an energy application head having an energy application region		
4		and a tissue protecting region;		
5	(b)	a control member operationally connected to said energy		
6		application head, said control member suitable for controlling said		
7		energy application head during treatment of said at least one		
8		intervertebral disc;		
9	(c)	said energy application head further comprising a rounded thin		
10		leading edge at the anterior intersection of said energy application		
11		region and said tissue protecting region; and		
12	(d)	said tissue protecting region sloped away from said energy		
13		application region and to a thick region for lifting vulnerable tissues		
14		away from a site of energy application to said at least one		
15		intervertebral disc.		
16				
1	Clain	n 21 (original): The apparatus of claim 20, wherein said energy		
2	application head is wedge-shaped.			
3				
1	Clain	n 22 (original): The apparatus of claim 20, wherein said tissue		
2	protecting region h	as a domed center.		
3				
1	Clain	n 23 (original): The apparatus of claim 20, wherein said energy		
2	application region has a smooth surface suitable for gliding over surfaces of an annulus			
3	fibrosis without snagging other tissues.			

1		Claim	24 (pre	eviously presented): A method for epidurally treating at least
2	one intervertebral disc using a disc refurbisher, said method comprising the steps of:			
3		(a)	gainin	g access to a vertebral column;
4		(b)	inserti	ng a thin leading edge formed at the anterior portion of a
5			round	ed edge intersection between an energy application region
6			and a	tissue protecting region of an energy application head of said
7			disc re	efurbisher;
8		(c)	epidur	ally approaching the posterior aspect of said at least one
9			interve	ertebral disc;
10		(d)	lifting	vulnerable tissues using said tissue protecting region, said
11			tissue	protecting region being sloped away from said energy
12			applic	ation region and from said thin leading edge to a thick region;
13			and	
14		(e)	applyi	ng energy to a posterior aspect of said at least one
15			interve	ertebral disc using said energy application region.
16				
1		Claim	25 (pre	eviously presented): A method for thermally treating an
2	intervertebral	disc v	hile the	ermally protecting vulnerable tissues, said method comprising
3	the steps of:			
4		(a)	provid	ing a disc refurbisher, said disc refurbisher comprising:
5			(i)	an energy application head having an energy application
6				region and a tissue protecting region;
7			(ii)	a thin leading edge formed at the anterior portion of a
8				rounded edge intersection between said energy application
9				region and said tissue protecting region;
10			(iii)	said tissue protecting region being sloped away from said
11				energy application region and from said thin leading edge to
12				a thick region for lifting vulnerable tissues away from a site of

13			energy application to said at least one intervertebral disc;
14			and
15		(iv)	a control member operationally connected to said energy
16			application head, said control member suitable for controlling
17			said energy application head during treatment of said
18			intervertebral disc;
19	(b)	gainiı	ng access to a vertebral column;
20	(c)	epidu	rally approaching the posterior aspect of said at least one
21		interv	vertebral disc using said control member to position said
22		energ	gy application head;
23	(d)	evalu	ating an extent of disc injury and calculating an amount of
24		energ	gy needed to thermally refurbish said at least one intervertebra
25		disc;	
26	(e)	apply	ring energy using said disc refurbisher to a posterior aspect of
27		said a	at least one intervertebral disc while maintaining a safe
28		temp	erature in said vulnerable tissues near said at least one
29		interv	vertebral disc;
30	(f)	moni	toring an amount of energy delivered and a temperature in
31		said v	vulnerable tissues near said at least one intervertebral disc;
32	(g)	obse	rving and evaluating an amount of shrinkage and
33		stren	gthening of said at least one intervertebral disc to determine
34		an in	tensity and duration of further energy delivery; and
35	(h)	verify	ring that said shrinkage and strengthening of said at least one
36		interv	vertebral disc is mechanically successful.
27			